

IN THE CLAIMS

1. (currently amended) A transmission device, comprising:

a receiving unit operable to receive a digital signal distributed from a prescribed distribution device;

a first generating unit operable to set identification information corresponding to a reception device and reception control information for controlling the reception operation of the reception device in an area secured in advance in a format of composite information, thereby generating composite information;

a second generating unit operable to compose a predetermined number of digital signals on the basis of the composite information to generate redistribution digital signals containing the composite information; and

a transmitter operable to transmit the redistribution digital signals to the reception device,

the redistribution digital signals are formed on the basis of packets of the received digital signal and frame transport packets which are not part of the received digital signal, the received digital signal is made up of packets, the frame transport packets including include a predefined area in which data can be written, and the formation of the redistribution signals includes writing information identifying the reception device in the predefined area and writing reception control information for the reception device in the predefined area,

the writing of information identifying the reception device and the writing of reception control information for the reception device being performed on a frame-by-frame basis,

each frame transport packet being associated with a plurality of transport packets having the same format as the

packets of the received digital signal, and the reception control information written in the frame transport packet corresponding to the transport packets associated with the frame transport packet.

2. (previously presented) The transmission device as claimed in claim 1, wherein the reception control information is set to control the reception operation for every digital signal for redistribution in the reception device.

3. (previously presented) The transmission device as claimed in claim 1, wherein the first generating unit generates the composite information every time a digital signal for redistribution is received by the reception device or so that the composite information is achieved by the reception device when the composite information is renewed.

4. (original) The transmission device as claimed in claim 3, wherein the renewal of the composite information is recognized on the basis of version information of the composite information.

5. (currently amended) A transmission method, comprising: receiving a digital signal distributed from a prescribed distribution device;

setting identification information corresponding to a reception device and reception control information for controlling the reception operation of the reception device in an area secured in advance in a format of composite information, thereby generating composite information;

composing a predetermined number of digital signals on the basis of the composite information to generate

redistribution digital signals containing the composite information; and

transmitting the redistribution digital signals to the reception device,

the redistribution digital signals are formed on the basis of packets of the received digital signal and frame transport packets which are not part of the received digital signal, the frame transport packets including a predefined area in which data can be written, and the formation of the redistribution signals includes writing information identifying the reception device in the predefined area and writing reception control information for the reception device in the predefined area, the redistribution digital signals are formed on the basis of the received digital signal, the received digital signal is made up of packets, the packets include a predefined area in which data can be written, and the formation of the redistribution signals includes writing information identifying the reception device in the predefined area and writing reception control information for the reception device in the predefined area,

the writing of information identifying the reception device and the writing of reception control information for the reception device being performed on a frame-by-frame basis,

each frame transport packet being associated with a plurality of transport packets having the same format as the packets of the received digital signal, and the reception control information written in the frame transport packet corresponding to the transport packets associated with the frame transport packet.

6. (currently amended) A recording medium having a computer-readable program recorded thereon, the program comprising:

receiving a digital signal distributed from a prescribed distribution device;

setting identification information corresponding to a reception device and reception control information for controlling the reception operation of the reception device in an area secured in advance in a format of composite information, thereby generating composite information;

composing a predetermined number of digital signals on the basis of the composite information to generate redistribution digital signals containing the composite information; and

transmitting the redistribution digital signals to the reception device,

the redistribution digital signals are formed on the basis of packets of the received digital signal and frame transport packets which are not part of the received digital signal, the frame transport packets including a predefined area in which data can be written, and the formation of the redistribution signals includes writing information identifying the reception device in the predefined area and writing reception control information for the reception device in the predefined area,  
the redistribution digital signals are formed on the basis of the received digital signal, the received digital signal is made up of packets, the packets include a predefined area in which data can be written, and the formation of the redistribution signals includes writing information identifying the reception device in the predefined area and writing reception control information for the reception device in the predefined area,

the writing of information identifying the reception device and the writing of reception control information for the reception device being performed on a frame-by-frame basis,

each frame transport packet being associated with a plurality of transport packets having the same format as the packets of the received digital signal, and the reception control information written in the frame transport packet corresponding to the transport packets associated with the frame transport packet.

7. (currently amended) A system for performing a transmission process, comprising:

a processor for executing instructions; and instructions, the instructions including:

receiving a digital signal distributed from a prescribed distribution device;

setting identification information corresponding to a reception device and reception control information for controlling the reception operation of the reception device in an area secured in advance in a format of composite information, thereby generating composite information;

composing a predetermined number of digital signals on the basis of the composite information to generate redistribution digital signals containing the composite information; and

transmitting the redistribution digital signals to the reception device,

the redistribution digital signals are formed on the basis of packets of the received digital signal and frame transport packets which are not part of the received digital signal, the frame transport packets including a predefined area in which data can be written, and the formation of the redistribution signals includes writing information identifying

the reception device in the predefined area and writing reception control information for the reception device in the predefined area, the redistribution digital signals are formed on the basis of the received digital signal, the received digital signal is made up of packets, the packets include a predefined area in which data can be written, and the formation of the redistribution signals includes writing information identifying the reception device in the predefined area and writing reception control information for the reception device in the predefined area,

the writing of information identifying the reception device and the writing of reception control information for the reception device being performed on a frame-by-frame basis,

each frame transport packet being associated with a plurality of transport packets having the same format as the packets of the received digital signal, and the reception control information written in the frame transport packet corresponding to the transport packets associated with the frame transport packet.

8. (currently amended) A reception device, comprising:

a storage unit operable to store identification information corresponding to the reception device;

a receiver operable to receive a redistribution digital signal containing composite information transmitted from a transmission device;

an achieving unit operable to achieve reception control information corresponding to the identification information stored in the storage unit from an area secured in advance in a format of the composite information;

an extracting unit operable to extract a desired digital signal from the redistribution digital signal by using the composite information; and

a processor operable to process the desired digital signal on the basis of the reception control information,

the redistribution digital signal is formed on the basis of packets of the received digital signal and frame transport packets which are not part of the received digital signal, the frame transport packets including a predefined area in which data can be written, and the formation of the redistribution signal includes writing information identifying the reception device in the predefined area and writing reception control information for the reception device in the predefined area, the redistribution digital signal is formed on the basis of a digital signal received from a distribution device, the received digital signal is made up of packets, the packets include a predefined area in which data can be written, and the formation of the redistribution signal includes writing information identifying the reception device in the predefined area and writing reception control information for the reception device in the predefined area,

the writing of information identifying the reception device and the writing of reception control information for the reception device being performed on a frame-by-frame basis,

each frame transport packet being associated with a plurality of transport packets having the same format as the packets of the received digital signal, and the reception control information written in the frame transport packet corresponding to the transport packets associated with the frame transport packet.

9. (previously presented) The reception device as claimed in claim 8, wherein the achieving unit achieves the reception control information every time the redistribution digital signal is received by the receiver or when the composite information is renewed.

10. (original) The reception device as claimed in claim 9, wherein the renewal of the composite information is recognized from version information of the composite information.

11. (previously presented) The reception device as claimed in claim 8, wherein the achieving unit achieves the reception control information separately from the reception of the redistribution digital signal in the receiver.

12. (currently amended) A reception method, comprising:

storing identification information corresponding to a reception device;

receiving a redistribution digital signal containing composite information transmitted from a transmission device;

achieving reception control information corresponding to the stored identification information from an area secured in advance in a format of the composite information;

extracting a desired digital signal from the redistribution digital signal by using the composite information; and

processing the desired digital signal on the basis of the reception control information,

the redistribution digital signal is formed on the basis of packets of the received digital signal and frame transport packets which are not part of the received digital signal, the frame transport packets including a predefined area in which data can be written, and the formation of the redistribution signal includes writing information identifying the reception device in the predefined area and writing reception control information for the reception device in the predefined area, the redistribution digital signal is formed on the basis of a digital signal received from a distribution device, the received digital signal is made up of packets, the packets include a predefined area in which data can be written, and the formation of the redistribution signal includes writing information identifying the reception device in the predefined area and writing reception control information for the reception device in the predefined area,

the writing of information identifying the reception device and the writing of reception control information for the reception device being performed on a frame-by-frame basis,

each frame transport packet being associated with a plurality of transport packets having the same format as the packets of the received digital signal, and the reception control information written in the frame transport packet corresponding to the transport packets associated with the frame transport packet.

13. (currently amended) A recording medium having a computer-readable program recorded thereon, the program comprising:

storing identification information corresponding to a reception device;

receiving a redistribution digital signal containing composite information transmitted from a transmission device;

achieving reception control information corresponding to the stored identification information from an area secured in advance in a format of the composite information;

extracting a desired digital signal from the redistribution digital signal by using the composite information; and

processing the desired digital signal on the basis of the reception control information,

the redistribution digital signal is formed on the basis of packets of the received digital signal and frame transport packets which are not part of the received digital signal, the frame transport packets including a predefined area in which data can be written, and the formation of the redistribution signal includes writing information identifying the reception device in the predefined area and writing reception control information for the reception device in the predefined area, the redistribution digital signal is formed on the basis of a digital signal received from a distribution device, the received digital signal is made up of packets, the packets include a predefined area in which data can be written, and the formation of the redistribution signal includes writing information identifying the reception device in the predefined area and writing reception control information for the reception device in the predefined area,

the writing of information identifying the reception device and the writing of reception control information for the reception device being performed on a frame-by-frame basis,

each frame transport packet being associated with a plurality of transport packets having the same format as the packets of the received digital signal, and the reception control information written in the frame transport packet corresponding to the transport packets associated with the frame transport packet.

14. (currently amended) A system for performing a reception process, comprising:

    a processor for executing instructions; and  
    instructions, the instructions including:

    storing identification information corresponding to a reception device;

    receiving a redistribution digital signal containing composite information transmitted from a transmission device;

    achieving reception control information corresponding to the stored identification information from an area secured in advance in a format of the composite information;

    extracting a desired digital signal from the redistribution digital signal by using the composite information; and

    processing the desired digital signal on the basis of the reception control information,

the redistribution digital signal is formed on the basis of packets of the received digital signal and frame transport packets which are not part of the received digital signal, the frame transport packets including a predefined area in which data can be written, and the formation of the redistribution signal includes writing information identifying the reception device in the predefined area and writing reception control information for the reception device in the

predefined area, the redistribution digital signal is formed on the basis of a digital signal received from a distribution device, the received digital signal is made up of packets, the packets include a predefined area in which data can be written, and the formation of the redistribution signal includes writing information identifying the reception device in the predefined area and writing reception control information for the reception device in the predefined area,

the writing of information identifying the reception device and the writing of reception control information for the reception device being performed on a frame-by-frame basis,

each frame transport packet being associated with a plurality of transport packets having the same format as the packets of the received digital signal, and the reception control information written in the frame transport packet corresponding to the transport packets associated with the frame transport packet.